Japanese (PDF)

File Wrapper Information

FULL CONTENTS CLAIM + DETAILED DESCRIPTION TECHNICAL FIELD PRIOR ART TECHNICAL PROBLEM MEANS EXAMPLE

[Translation done.]

Dischimer:

This English translation is produced by machine translation and may contain errors. The IPO, the INPT, and these who didfied this document in the original language are not responsible for the result of the translation.

Notes

Untranslatable words an replaced with asterisks (****)

2. Texts in the figures are not translated and shown as it in.

Translated: 13:11:39 JST 11/09/2008

Dictionary: Last updated 10/08/2008 / Priority: 1. Biotechnology / 2. Mediest/Pharmaceutical sciences / 3. Technical term

EXAMPLE

[Example] Hereafter, the example of an examination is given and this invention is explained in detail.

[0041]

[The example 1 of an examination] The real-time step RT-PCR method adopted by the creation exam of the calibration curve by the real-time detecting method carries out simultaneously the reaction from which a maximum of 96 differed using 96 wells, and can measure a maximum of 96 specimen at once. Moreover, RT reaction and a PCR reaction can be performed within 1 tube.

[0042] The principle of this quantum uses FRIT produced when a wavelength field overlaps between the fluorescence wavelength of one pigment (reporter pigment), and the excitation light wavelength of the pigment (quencher pigment) of another side using two kinds of adjoining fluorochromes. Hybridization is carried out to cDNA of the specific glutathione-Stransferase origin in which the probe (TaqMan probe) combined with both ends amplified two sorts of fluorochromes which produce FRIT by PCR. The extension reaction of PCR starts in this status, and it is Taq. A TaqMan probe is hydrolyzed by 5-3' endonuclease activity which a DNA polymerase has. Since a reporter pigment *****s, the physical distance between quencher pigments arises, the fluorescence intensity of the reporter pigment controlled by FRIT increases and the increase in this fluorescence intensity is proportional to the increase of stock of the amplification product of PCR By measuring this for every PCR reaction, a desired quantum becomes possible.

[0043] In the exam, FAM was used as a reporter pigment and TAMRA was used for the three-dash terminal side as a quencher pigment at the five prime end side which is a probe. This etc. performed combination of each pigment, and creation of the TaqMan probe by this according to the procedure (Genome Res., 6 (10), and 986 (1996)) given in literature. [0044] Moreover, the oligonucleotide as each primer and a probe was compounded using the substrate (dNTP) and the regular reagent using DNA / RNA-biosynthesis machine made from ABI as an automatic synthesizer.

[0045] As a specimen RNA, all the RNA refined from adult's brain, adult's kidney, adult's lungs, adult's small intestine, embryonic liver, and the adult's liver Poole was used. In addition, each of all the RNA, such as this, was purchased from Clonetec (Clontech Translation done.

Laboratories, Inc.).

[0046] All the RNA refined from adult's brain, adult's kidney, adult's lungs, adult's small intestine, embryonic liver, and the adult's liver Poole was diluted with a RNase freelancer's water, and was made into 20microy/mL. Then, an equivalent amount of these six kinds were mixed every, and it carried out to calibration curve creation. Henceforth, it diluted with the common ratio 5 times using the yeast tRNA of 50microg/mL (Yeast tRNA, product made by GiBCO). Smircol. was useful for measurement.

[0047] RT-PCR reactions are a 300nM forward primer, a 900nM reverse primer, and a 200nM TaqMan probe. Using included TaqMan One-Step RT-PCR Master Mix Reagents Kit (PE Applied Biosystems). [the system of 50microL/ tube] ABI PRISMTM7700 It carried out in Sequence Detection System (PE Applied Biosystems).

[0048] After it kept it warm in 30 minutes at 48 degrees C and temperature conditions kept them warm in 10 minutes at 95 degrees C, they were performed for 15 seconds at 95 degrees C, performed the cycle for 1 minute 50 times at 60 degrees C, and measured fluorescence intensity for every cycle.

[0049] The result (calibration curve) of the above-mentioned examination done using the primer pair of arrangement and probe which are shown in each arrangement number to each above mentioned enzyme is shown in Table 1. [0050]

[Table 1]

酵素	検量線		相関係数	定量限界
			r	(反応液量;50 μL) (pg 全RNA)
	傾き	切片		
(1) GSTP1	-3. 40	38. 20	1.00	1. 28
(2) GSTT1	-3.21	37.78	1.00	6.4
(3) GSTT2	-4. 01	43. 15	0.99	32
(4) GSTM1b	-3. 80	45.61	0.99	32
(5) GSTM2	-3.84	45. 19	1.00	160
(6) GSTM3	-3. 31	39.59	1.00	32
(7) GSTM4	-3. 55	39.63	1.00	32
(8) GSTM5	-4. 31	47.95	1.00	800
(9) GSTA1-1	-3.68	42. 52	1.00	4000
(10) GSTA2	-4.65	46. 29	1.00	800
(11) GSTA3	-6. 38	62.04	0.99	4000
(12) GSTA4	-3.31	39. 94	1.00	6.4
(13) MGST1	-3. 29	36. 29	1.00	6. 4
(14) MGST2	-3.66	41.41	1.00	32
(15) MGST3	-3, 33	37.03	1.00	32
(16) MGST111	-2.88	41.54	1.00	32
(17) GSTZ 1	-3.27	38. 95	1.00	6. 4

[0051] When the calibration curve diluted with the common ratio 5 times from 100000pg all RNA / the amount of 50microL reaction mixture was created from Table 1, it is about GSTP1, 1. It had a fixed quantity of sexes to 28pg all RNA / the amount of 50microL reaction mixture, and the coefficient of correlation (r) of the calibration curve which made the quantitation limit 4000pg all RNA from 1.28pg about other enzyme was 0.99 or more. [0052]
[Layout Table] SEQUENCE LISTING <110> Ostuka Pharmaceutical Factory Inc. <120>

The measuring method of glutathione-S-transferase, A probe and a kit <130> for that 00P1072 < 160> 51<210> 1<211> 26<212> DNA <math><213> human GSTP1 gene <400>

http://dossier1.ipdl.inpit.go.jp/AFPN/aipn_call_transl.i...Ntt6=medical_NG2_v5&Ntt7=gakujutsu_v5&Ntt8=&Ntt9=&Ntt10=(2 of 4)11/8/0811:12:50 PM

laggaceteeg etgeaaatac atetee 26<210> 2 <211> 26<212> DNA <213> human GSTT1 gene <400> 2 ttgctcgagg acaagttcct ccagaa 26<210> 3<211> 26< DNA[212>] <213> human GSTT2 gene <400> 3ttagagctgc gcaccgtgga tttggt 26<210> 4 <211> 31<212> DNA <213> human GSTM1B gene <400> 4 accatggaca accatatgca gctgggcatg a 31<210> 5<211> 29<212> DNA<213> human GSTM2 gene<400> 5tttatggaca gccgtatgca gctggccaa 29<210> 6<211> 31<212> DNA<213> huma n GSTM3 gene<400> 6taatggattt ccgcacacaa ctgataaggc t 31<210> 7 <211> 33<212> DNA <213> human GSTM4 gene <400> 7tccaatcagc tggccagagt ctgctacagc cct 33<210> 8 <211> 33<212> DNA <213> human GSTM5 gene <400> 8cagtetgace agetecatgt ggttatecat aac 33<210> 9 <211> 31<212> DNA <213> human GSTA1-1 gene <400> 9gtatgtccac ctgaggaaaa agatgccaag c 31<210> 10 <211> 29<212> DNA <213> human GSTA2 gene<400> 10tactcaacct gaggaacaag atgccaagc 29<210> 11<211> 32<212> DNA<213> human GSTA3 gene<400> 11agaaaacaaa aagtcgctat t tecetgeet to 32<210> 12 <211> 29<212> DNA <213> human GSTA4 gene <400> 12 tggcaagaac ctcaaggaga gaaccctga 29<210> 13<211> 30< DNA[212>] <213> human MGST1 gene <400> 13acagccatcc tgcacttcag actatttgtc 30<210> 14 <211> 27<212> DNA <213> human MGST2 gene <400> 14cteggeetgt cagcaaagtt attttgc 27<210> 15 <211> 26<212> DNA <213> human MGST3 gene <400> 15 cacatettea aetgeattea gegage 26<210> 16<211> 29<212> DNA<213> human MGST1L1 gene<400> 16ttaggaccca gaaaggagta gacgaagcc 29<210> 17<211> 26<212> DNA<213> human GSTZ 1 gene<400> 17catggagagt tegaattget etggee 26<210> 18 <211> 21<212> DNA <213> human GSTP1 gene <400> 18 ctggtggaca tggtgaatga c 21<210> 19 <211> 23<212> DNA <213> human GSTP1 gene <400> 19cgcctcatag ttggtgtaga tga 23<210> 20 <211> 21<212> DNA <213> human GSTT1 gene <400> 20 agagttggat gtgaccctgc a 21<210> 21 <211> 23<212> DNA <213> human GSTT1 gene <400> 21tcagctaagg agatgtgagg acc 23<210> 22<211> 19<212> DNA<213> human GSTT2 gene<400> 22ccaagaagaa tggcatccc 19<210> 23<211> 19<212> DNA<213> human GSTT2 gene< 400> 23ttgctcttgt gctgccctt 19<210> 24 <211> 21<212> DNA <213> human GSTM1B gene <400> 24agcaacgcca tcttgtgcta c 21<210> 25 <211> 22<212> DNA <213> human GSTM1B gene <400> 25 tacggtggag gtcaaggaca tc 22<210> 26 <211> 21<212> DNA <213> human GSTM2 gene <400> 26aatgccatcc tgcggtacat t 21<210> 27 <211> 22<212> DNA <213> human GSTM2 gene <400> 27 tgcttcccca gaaactgtga gt 22<210> 28 <211> 23<212> DNA<213> human GSTM3 gene<400> 28cgagtggaca tcatagagaa cca 23<210> 29<211> 23<212> DNA<213> human GSTM3 gene<400> 29agc tcttcca agtactgagg ctt 23<210> 30 <211> 21<212> DNA <213> human GSTM4 gene <400> 30ttggagaacc aggctatgga c 21<210> 31 <211> 22<212> DNA <213> human GSTM4 gene <400> 31 ttccccagga actgtgagaa gt 22<210> 32 <211> 21<212> DNA <213> human GSTM5 gene <400> 32ttcccaatct gccctacttg a 21<210> 33 <211> 22<212> DNA <213> human GSTM5 gene <400> 33 cctccaagta ttttggcttc ag 22<210> 34 <211> 20<212> DNA <213> human GSTA1-1 gene<400> 34atgttccagc aagtgccaat 20<210> 35<211> 19<212> DNA<213> human GSTA1-1 gene<400> 35actggagtca ageteeteg 19<210> 36<211> 22< DNA[212>] <213> human GSTA2 gene <400> 36cagaccagag ccattctcaa ct 22<210> 37 <211> 23<212> DNA <213> human GSTA2 gene <400> 37 aaggctagag tcaagctctt cca 23<210> 38<211> 22< DNA[212>] <213> human GSTA3 gene <400> 38agatgccaag attgccttga tc 22<210> 39 <211> 25<212> DNA <213> human GSTA3 gene <400> 39 cttettetaa agettttgea tetge 25<210> 40<211> 21< DNA[212>] <213> human GSTA4 gene <400> 40 agttggtaca gacccgaagc a 21< 210>41<211>22<212> DNA <213> human GSTA4 gene <400> " ** 1agttccagca gatccag tgt cc 22<210> 42<211> 21< DNA [212>] <213> human MGST1 gene <400> 42tattccttga gtggtcccga c 21<210> 43 <211> 22<212> DNA <213> human MGST1 gene <400> 43 aatggtgtgg tagatccgtg ct 22<210> 44 <211> 22<212> DNA <213> human MGST2 gene <400> 44ctgctggctg ctgtctctat tc 22<210> 45 <211> 22<212> DNA <213> human MGST2 gene <400> 45 ttgttgtgcc cgaaatactc tc 22<210> 46 <211> 21<212> DNA <213> human MGST3 gene<400> 46tacagcacgg accetgaaaa t 21<210> 47<211> 21<212> DNA<213> human MGST3 gene<400> 47acttccaacg tgttctggtg g 21< 210> 48<211> 21<212> DNA <213> human MGST1L1 gene <400> 48ggaacgacat ggagaccatc t 21<210> 49 <211> 19<212> DNA <213> human MGST1L1 gene <400> 49 agtgcatcca ggcgacaaa 19<210> 50 <211> 21<212> DNA <213> human GSTZ1 gene<400> 50tcctatttcc gaagctcctg c 21<210> 51<211> 22<212> DNA<213> human GSTZ1 gene<400> 51ttcagtgcct ggaagtcctt ag 22



[Translation done.]

Report Mistranslation

Japanese (whole document in PDF)